

FIG. 1

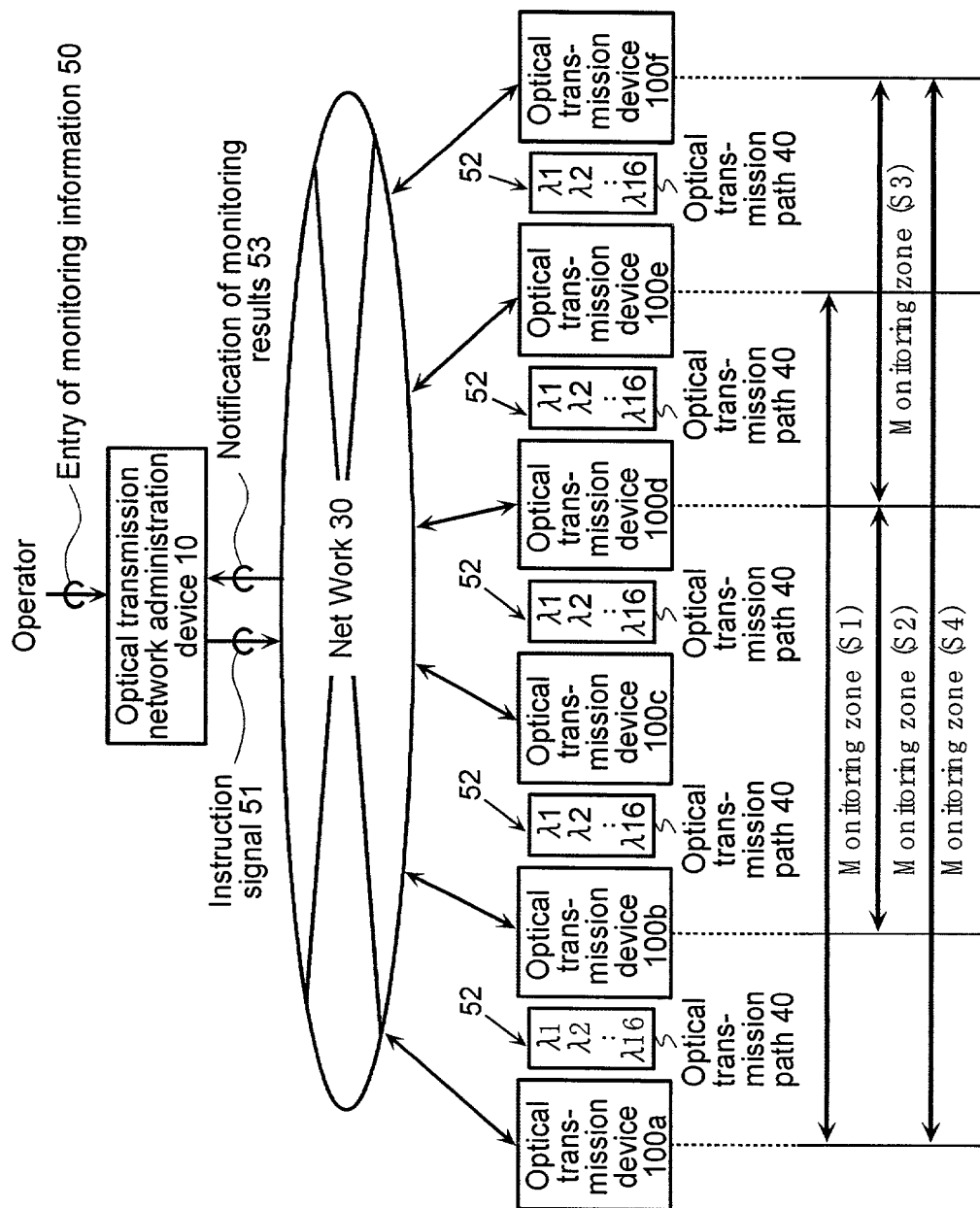


FIG.2

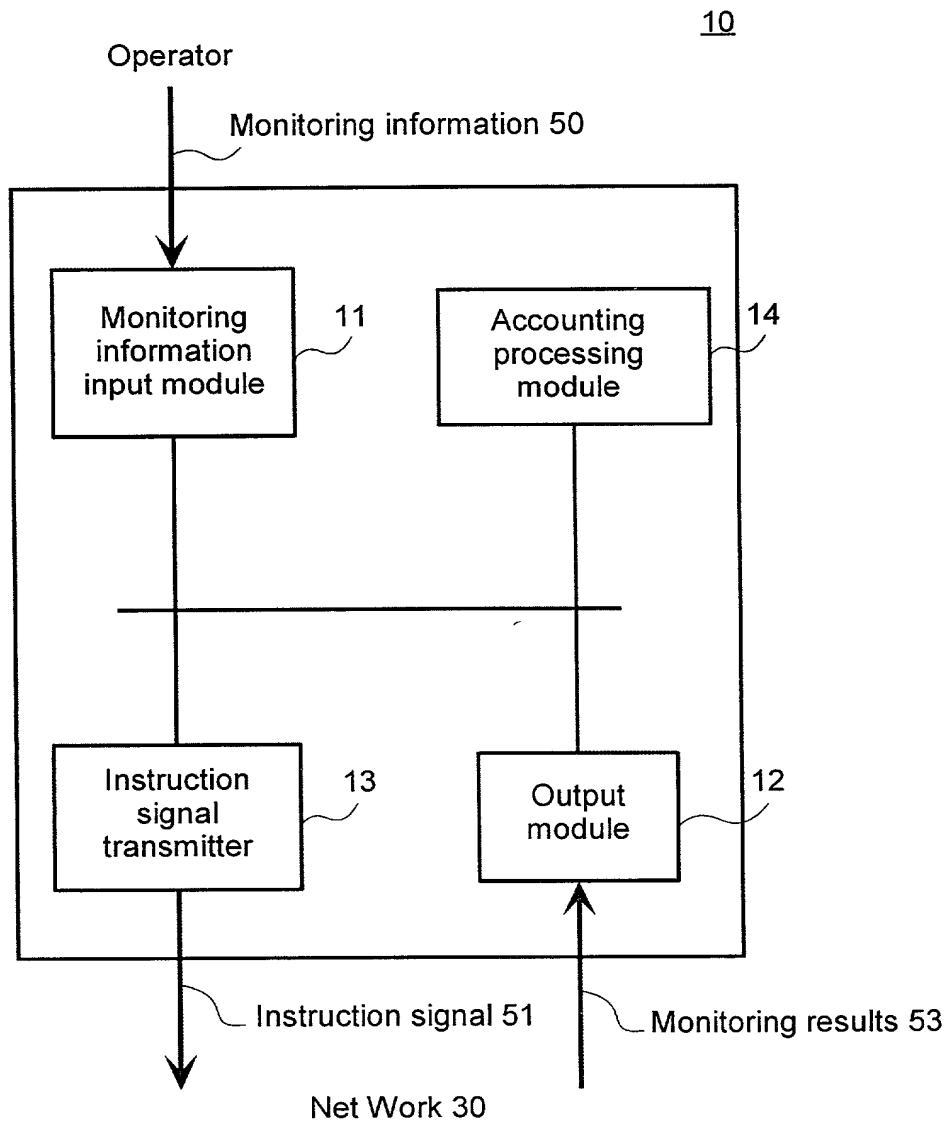


FIG.3

Category Monitoring information	Setting S1	Setting S2	Setting S3	Setting S4
Monitoring zone	from Node A to Node E	from Node B to Node D	from Node D to Node F	from Node A to Node F
Monitoring direction	Bi-directional	Bi-directional	Uni-directional	Bi-directional
Monitoring wavelength	$\lambda 1$	$\lambda 1, \lambda 2$	$\lambda 2$	$\lambda 3, \lambda 4, \lambda 5$
Monitored information (communication alarms)	Optical input interruption alarm / Frame out-of-sync alarm / Near End failure alarm / Far End failure alarm / BER threshold exceeded / Link mismatch alarm	Optical input interruption alarm / Frame out-of-sync alarm / Near End failure alarm / Far End failure alarm / BER threshold exceeded / Link mismatch alarm	Optical input interruption alarm / Frame out-of-sync alarm / Near End failure alarm / Far End failure alarm / BER threshold exceeded / Link mismatch alarm	Optical input interruption alarm / Frame out-of-sync alarm / Near End failure alarm / Far End failure alarm / BER threshold exceeded / Link mismatch alarm
Monitored information (performance information)	Error count / Error duration (sec) (ES) / Error duration (sec) (SES) / Frame out-of-sync time (sec) / Service downtime (sec)	Error count / Error duration (sec) (ES) / Error duration (sec) (SES) / Frame out-of-sync time (sec) / Service downtime (sec)	Error count / Error duration (sec) (ES) / Error duration (sec) (SES) / Frame out-of-sync time (sec) / Service downtime (sec)	Error count / Error duration (sec) (ES) / Error duration (sec) (SES) / Frame out-of-sync time (sec) / Service downtime (sec)

FIG.4

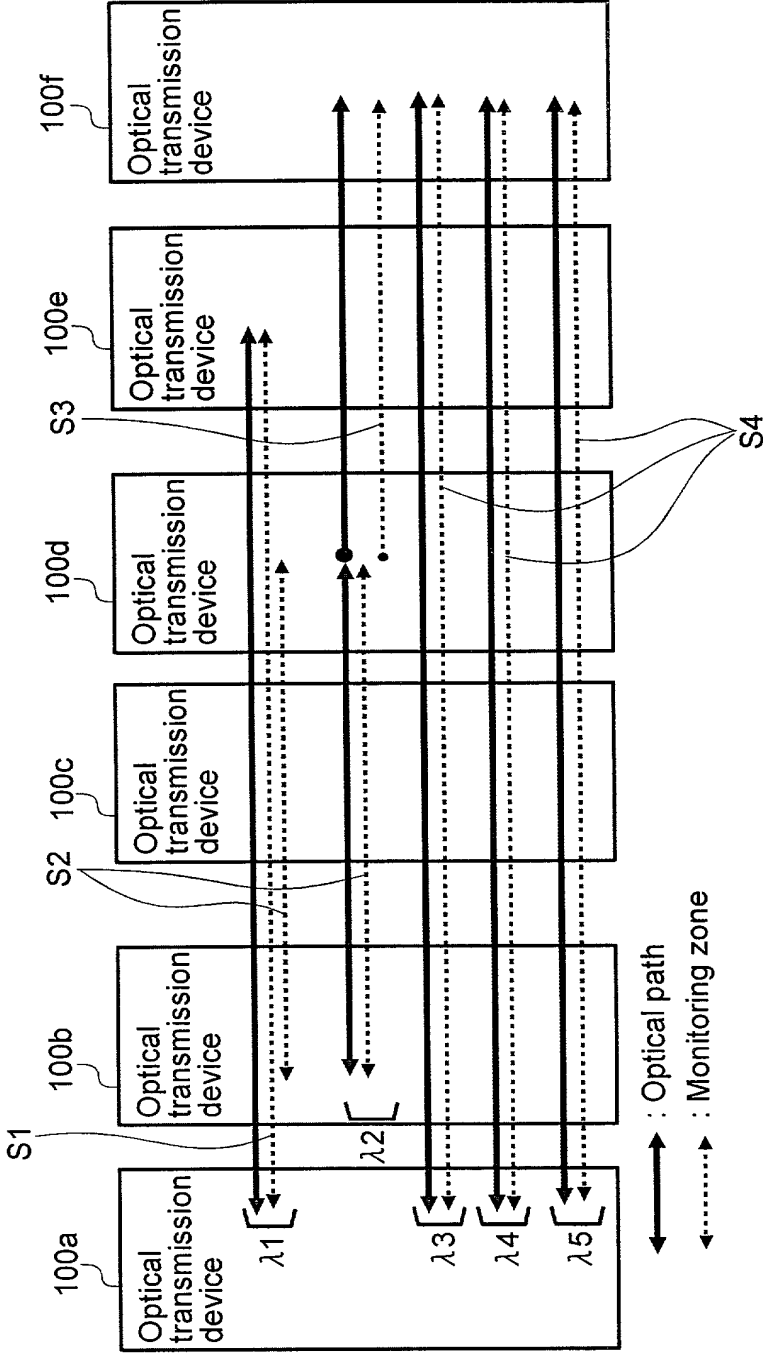


FIG.5

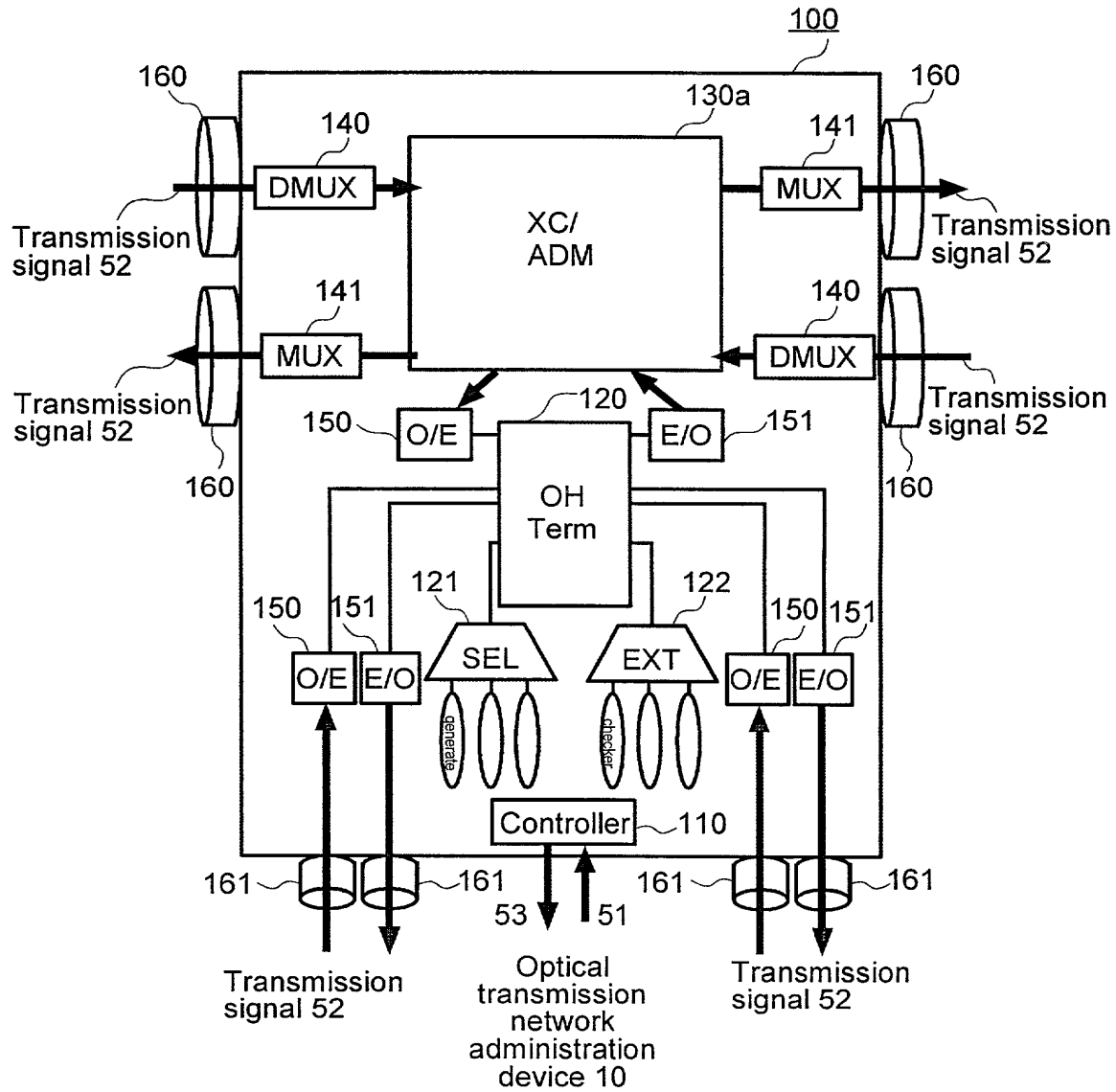


FIG.6

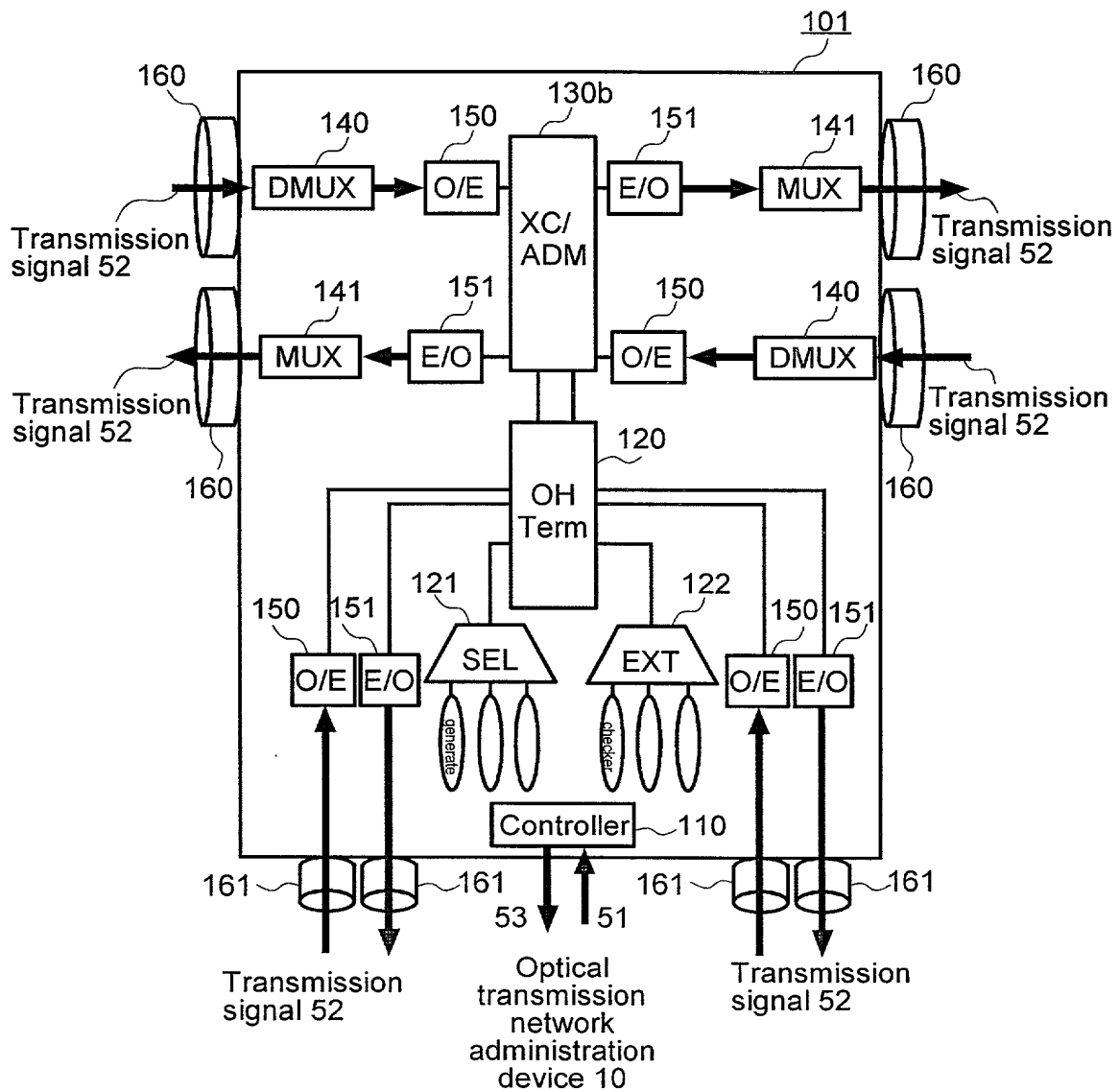


FIG.7

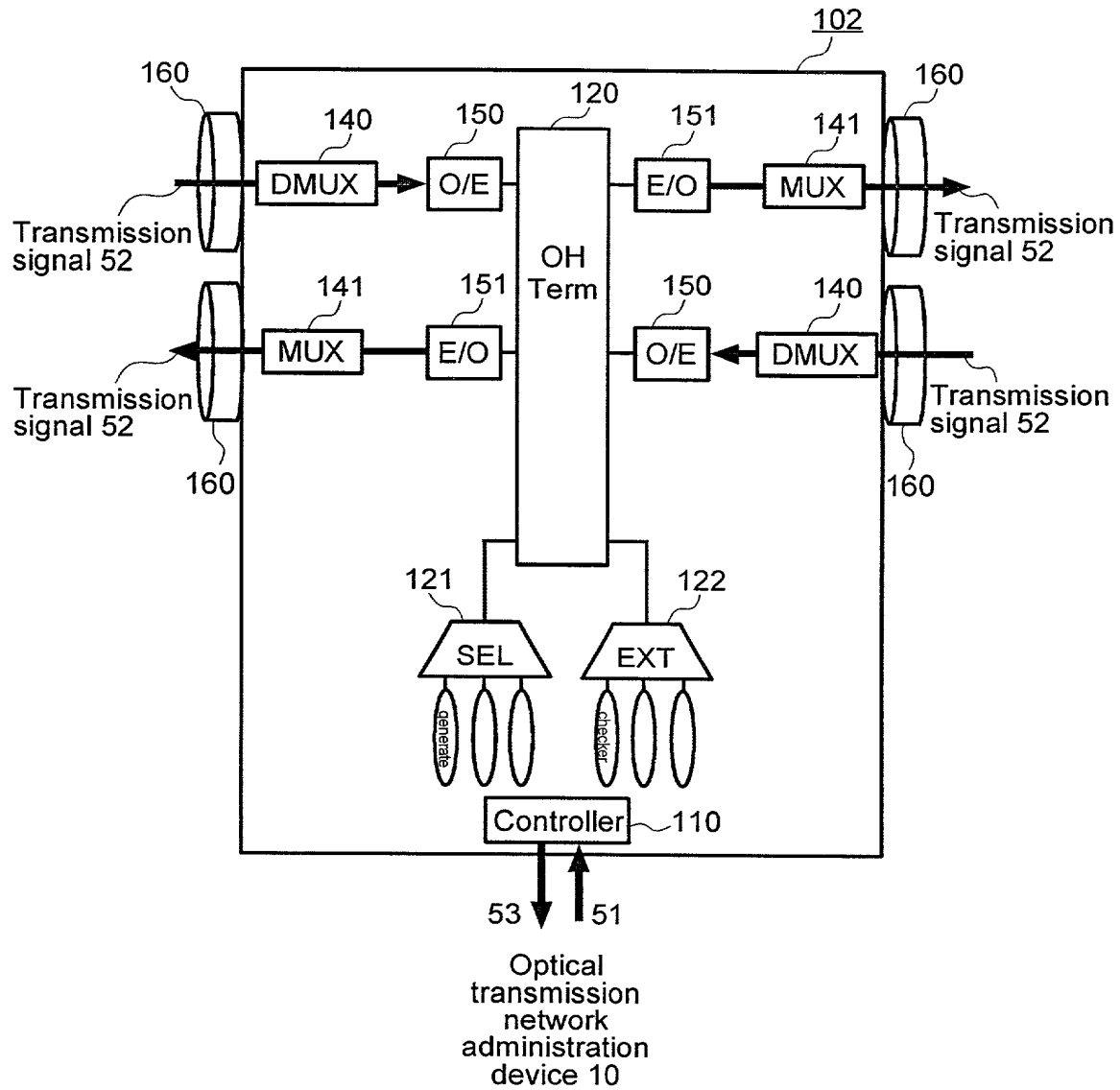


FIG.8

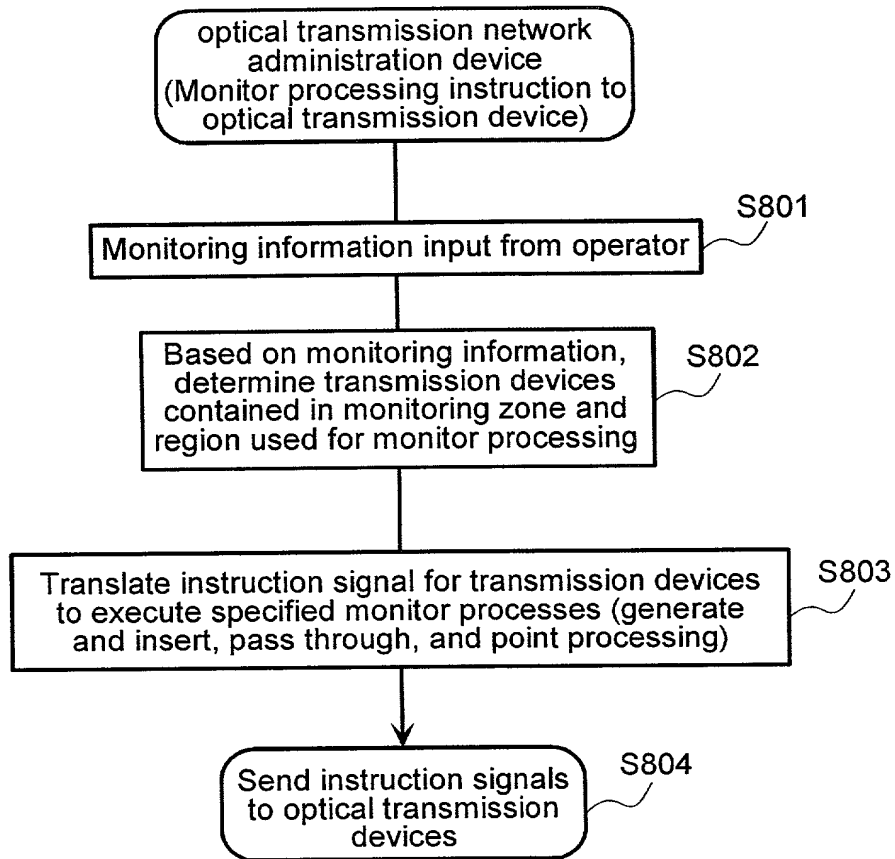


FIG.9

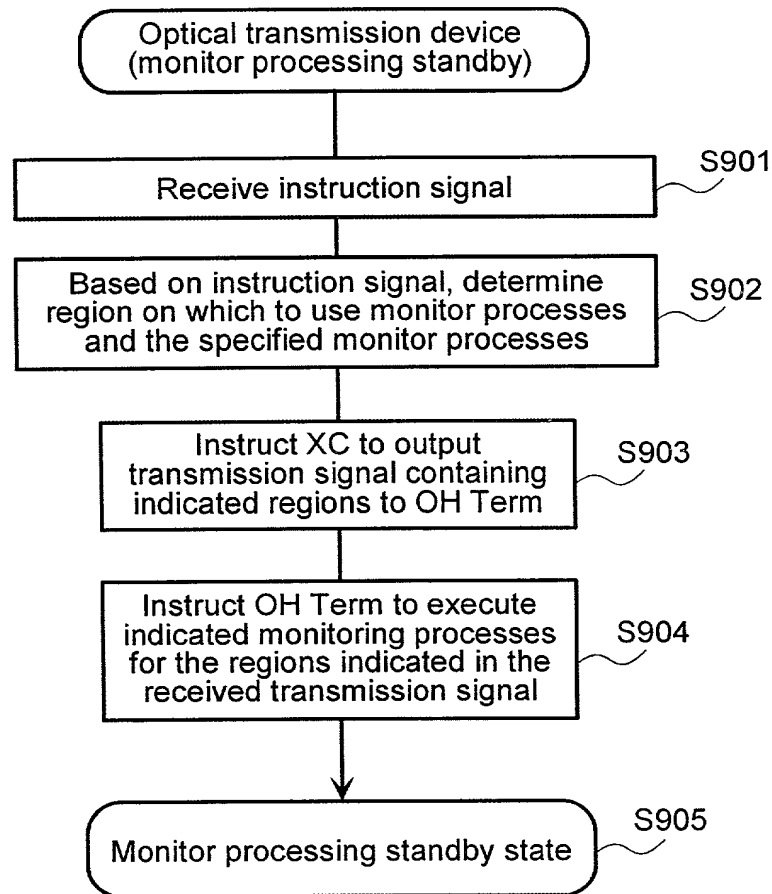


FIG.10

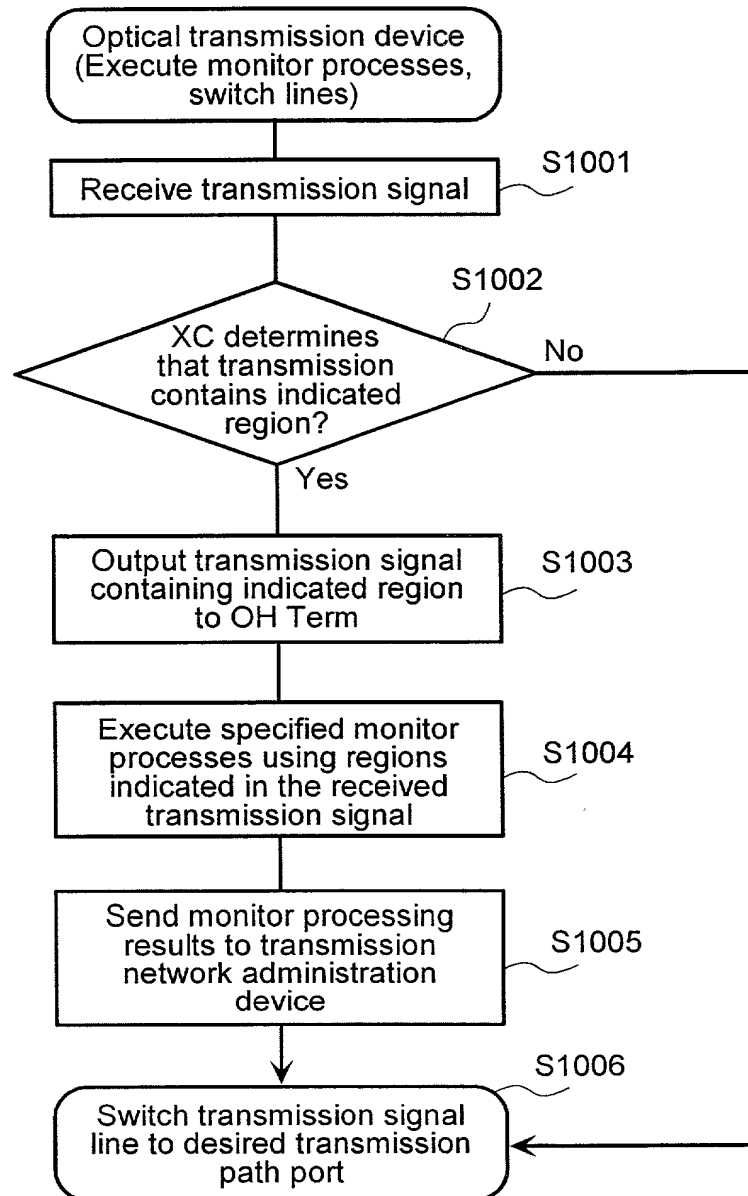


FIG.11

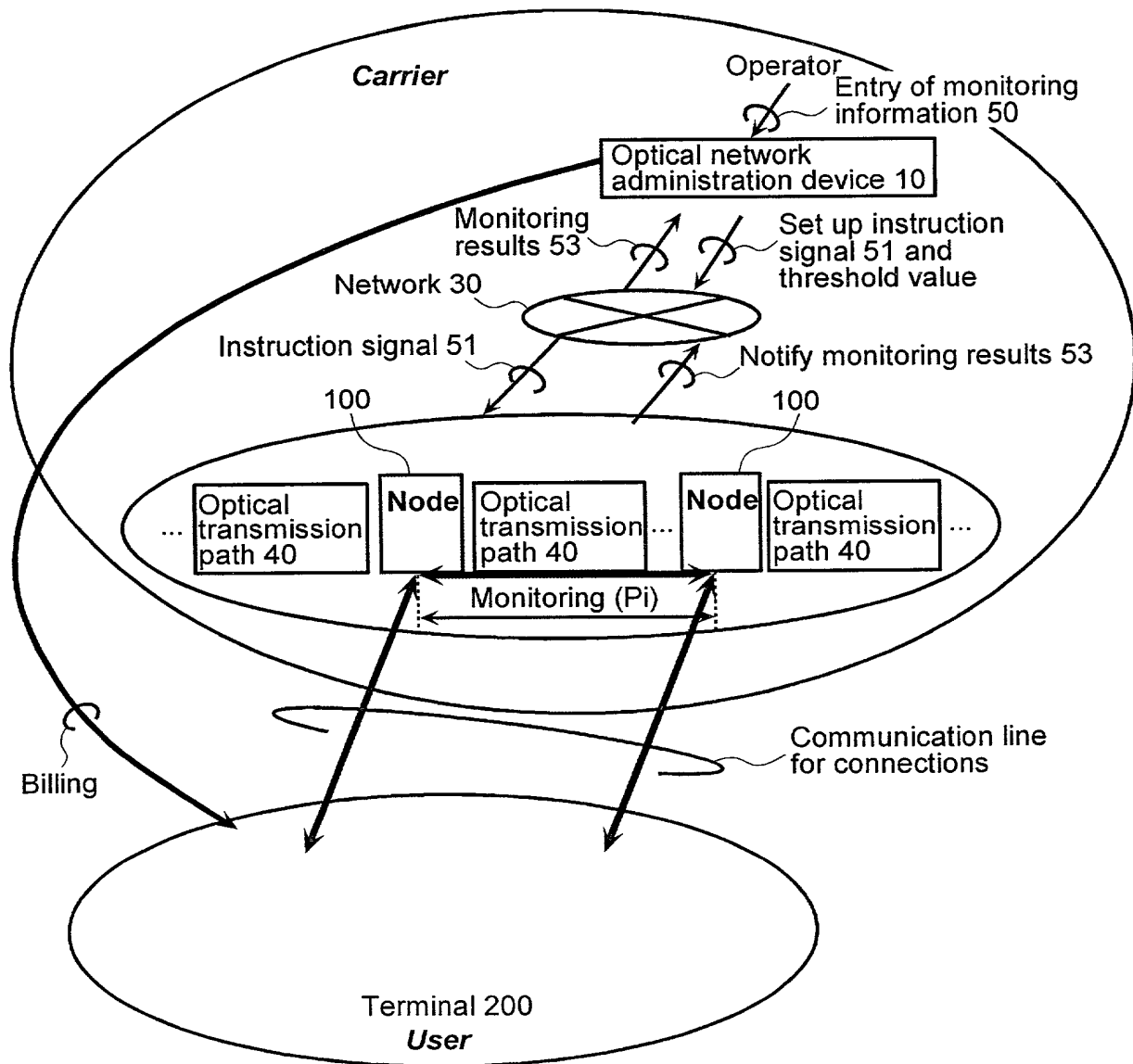


FIG.12

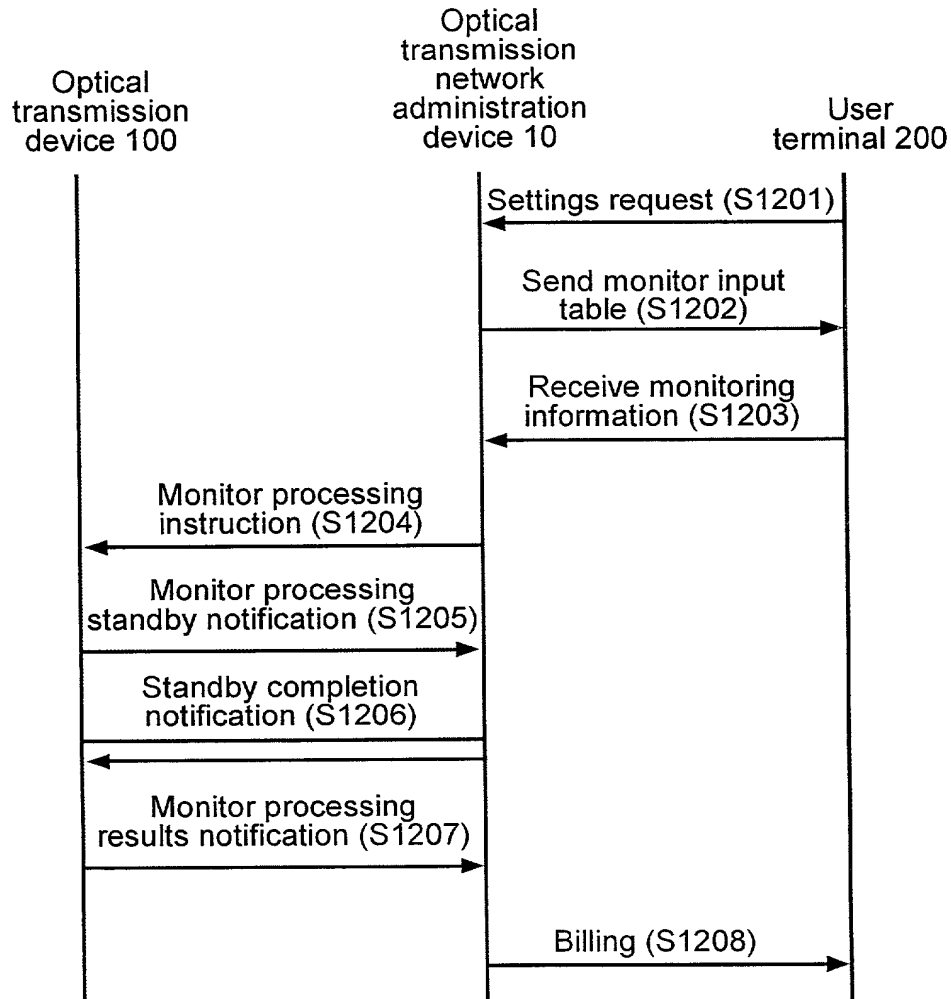


FIG.13

